

RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: Source: Date Processed by STIC:

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual - ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/466,778A

DATE: 08/14/2003 TIME: 15:07:38

Input Set : A:\PF487 subst. SL Aug2003.txt
Output Set: N:\CRF4\08142003\1466778A.raw

- 3 <110> APPLICANT: Hastings, et al.
 5 <120> TITLE OF INVENTION: Novel Hyaluronan-Binding Proteins and Encoding Genes
 7 <130> FILE REFERENCE: PF487
 9 <140> CURRENT APPLICATION NUMBER: 09/466,778A
 10 <141> CURRENT FILING DATE: 1999-12-20
- 12 <150> PRIOR APPLICATION NUMBER: 60/113,871 13 <151> PRIOR FILING DATE: 1998-12-23
- 15 <160> NUMBER OF SEQ ID NOS: 37
- 17 <170> SOFTWARE: PatentIn Ver. 2.0
- 19 <210> SEQ ID NO: 1
- 20 <211> LENGTH: 6761
- 21 <212> TYPE: DNA
- 22 <213> ORGANISM: Homo sapiens
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- 25 <221> NAME/KEY: CDS
- 26 <222> LOCATION: (170)..(6643)
- 28 <220> FEATURE:
- 29 <221> NAME/KEY: misc_feature
- 30 <222> LOCATION: (6342)
- 31 <223> OTHER INFORMATION: n equals a, t, g or c
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- 34 <221> NAME/KEY: misc_feature
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- 36 <223> OTHER INFORMATION: n equals a, t, q or c
- 38 <220> FEATURE:
- 39 <221> NAME/KEY: misc_feature
- 40 <222> LOCATION: (6529)
- 41 <223> OTHER INFORMATION: n equals a, t, g or c
- 43 <220> FEATURE:
- 44 <221> NAME/KEY: misc_feature
- 45 <222> LOCATION: (6535)
- 46 <223> OTHER INFORMATION: n equals a, t, g or c
- 48 <220> FEATURE:
- 49 <221> NAME/KEY: misc_feature
- 50 <222> LOCATION: (6537)
- 51 <223> OTHER INFORMATION: n equals a, t, q or c
- 53 <220> FEATURE:
- 54 <221> NAME/KEY: misc_feature
- 55 <222> LOCATION: (6688)
- 56 <223> OTHER INFORMATION: n equals a, t, g or c
- 58 <220> FEATURE:
- 59 <221> NAME/KEY: misc_feature
- 60 <222> LOCATION: (6724)

Does Not Comply Corrected Diskette Needed

pr 2, 6-7

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PATENT APPLICATION: US/09/466,778A

Input Set: A:\PF487 subst. SL Aug2003.txt
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64 <221> NAME/KEY: misc_feature
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(see p.6)
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81 ggaaagcgag gtgggggatg ggcgtgcctg ctacggacac ctgctccacg aggtgcagaa 120
83 ggccacgcag acaggccggg tgttcctgca gctgagggtc gccgtggcc atg atg gac 178
                                                          Met Met Asp
85
87 cag ggc tgc cgg gaa atc ctt acc aca gcg ggc cct ttc acc gtg ctg
                                                                      226
88 Gln Gly Cys Arg Glu Ile Leu Thr Thr Ala Gly Pro Phe Thr Val Leu
                            10
91 gtg cca tcc gtc tcc tcc tcc tcc agg acc atg aat gca tcc ctt
                                                                      274
92 Val Pro Ser Val Ser Ser Phe Ser Ser Arg Thr Met Asn Ala Ser Leu
                        25
                                            30
95 gec cag cag ctc tgt aga cag cac atc atc gca ggg cag cac atc ctg
                                                                      322
96 Ala Gln Gln Leu Cys Arg Gln His Ile Ile Ala Gly Gln His Ile Leu
                    40
                                        45
99 gag gac aca agg acc caa caa aca cga agg tgg tgg acg ctg gcc ggg
                                                                      370
100 Glu Asp Thr Arg Thr Gln Gln Thr Arg Arg Trp Trp Thr Leu Ala Gly
                 55
                                     60
103 cag gag atc acc gtc acc ttt aac caa ttc acg aaa tac tcc tac aag
                                                                       418
104 Gln Glu Ile Thr Val Thr Phe Asn Gln Phe Thr Lys Tyr Ser Tyr Lys
                                 75
                                                     80
107 tac aaa gac cag ccc cag cag acg ttc aac atc tac aag gcc aac aac
                                                                       466
108 Tyr Lys Asp Gln Pro Gln Gln Thr Phe Asn Ile Tyr Lys Ala Asn Asn
                             90
111 ata gca gct aat ggc gtc ttc cac gtg gtc act ggc ctg cgg tgg cag
                                                                       514
112 Ile Ala Ala Asn Gly Val Phe His Val Val Thr Gly Leu Arg Trp Gln
                        105
                                            110
115 gec ecc tet ggg acc ect ggg gat ecc aag aga act ate gga eag ate
                                                                       562
116 Ala Pro Ser Gly Thr Pro Gly Asp Pro Lys Arg Thr Ile Gly Gln Ile
                    120
                                        125
119 ctc gcc tct acc gag gcc ttc agc cgc ttt gaa acc atc ctg gag aac
                                                                       610
120 Leu Ala Ser Thr Glu Ala Phe Ser Arg Phe Glu Thr Ile Leu Glu Asn
               135
                                    140
123 tgt ggg etg eec tee ate etg gae gga eet ggg eec tte aca gte ttt
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124 Cys Gly Leu Pro Ser Ile Leu Asp Gly Pro Gly Pro Phe Thr Val Phe
125
            150
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Input Set : A:\PF487 subst. SL Aug2003.txt
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129		165					170					175					
												gag					754
		Leu	Phe	Thr	Ala	-	Leu	Ser	Lys	Leu		Glu	Leu	Val	Arg		
	180					185					190					195	000
												aag					802
	Hls	тте	Tyr	Asn		GTA	GLII	ьeu	THE		GIU	Lys	ьeu	тте		гуѕ	
137	a a t	~~~	0 + 0	ata	200	2 + cr	aaa	224	a 2 a	205	a± a	a a t	ata	220	210	+ a+	850
												gct Ala					030
141	СТУ	Arg	116	215	1111	1100	ΑΙα	АЗП	220	Val	шса	птц	VUL	225	110	DCI	
	gag	gag	aaa		atc	cta	cta	gga		σασ	aaa	gtc	aca		саσ	agg	898
												Val					000
145	<u></u>	010	230	9			200	235			1		240			3	
	qta	qac		atq	qcc	qcc	aat	qqc	gtg	atc	cac	atg	ctg	gac	ggc	atc	946
	_	_		_	_	_						Met					
149		245					250					255		_	_		
												aag					994
152	Leu	Leu	Pro	Pro	${ t Thr}$	Ile	Leu	Pro	Ile	Leu	Pro	Lys	His	Cys	Ser	Glu	
153						265					270					275	
												gac					1042
	Glu	Gln	His	Lys		Val	Ala	Gly	Ser		Val	Asp	Cys	Gln		Leu	
157					280					285					290		
												ctg					1090
	Asn	Thr	Ser		Cys	Pro	Pro	Asn		Val	ьуs	Leu	Asp		Pne	Pro	
161				295	+	- + -	~~+	~~~	300		~~~	a± a	o = +	305	at a	224	1138
												ctc Leu					1130
165	ьуѕ	GIU	310	Val	тАт	тте	птъ	315	ΡĻŪ	TIIT	СΤΆ	пеп	320	Val	пеп	цуз	
	224	aaa		acc	agg	tac	taa		caa	acc	atc	atg	-	саа	aac	tac	1186
												Met					1100
169		325	010	1114	001	- 1 -	330		0			335			1	~ <i>1</i>	
	tac		aat	ttt	ttc	aga		qac	tqc	acq	caq	tgt	cct	ada	ggc	ttc	1234
	_											Cys					
173		-	-			345		-	-		350			-	_	355	
175	tcc	aac	ccc	tgc	tat	ggc	aaa	ggc	aat	tgc	agt	gat	ggg	atc	cag	ggc	1282
176	Ser	Asn	Pro	Cys	Tyr	Gly	Lys	Gly	Asn	Cys	Ser	Asp	Gly	Ile	Gln	Gly	
177					360					365					370		
												ggc					1330
180	Asn	Gly	Ala	Cys	Leu	Cys	Phe	Pro	Asp	Tyr	Lys	Gly	Ile	Ala	Cys	$_{ t His}$	
181				375					380					385			
												tgc					1378
	Ile	Суѕ		Asn	Pro	Asn	Lys		Gly	Glu	Gln	Cys		Glu	Asp	Cys	
185			390					395					400				1400
												ggc					1426
	GTA	_	va⊥	HIS	GLY	ьeu		Asp	ASN	arg	PLO	Gly	ser	GΤÄ	СТА	val	
189	+ ~ ~	405	an «	~~~	200	+ ~+	410	aat	aac	++~	2 a+	415	aaa	++~	+ ~ ~	330	1474
TAT	Lgc	cag	cag	ggc	acg	LyL	gee	CCL	gge	LLC	ayı	ggc	cyy	LLC	Lyc	aac	14/4

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193	420					Cys 425					430					435		
						tgt Cys											1522	
						gtt Val											1570	
						ggt Gly											1618	
207						cgt Arg											1666	
$\begin{array}{c} 211 \\ 212 \end{array}$						acc Thr 505											1714	*
215	ggg					tgt Cys											1762	
219						acc Thr											1810	
223				tgc		tgc Cys											1858	
227			ccc			ccc Pro		cgg					ggc				1906	
231 232		gag				aat Asn 585	gcc										1954	
235	aag					acg Thr					cgc						2002	
239					_	gca Ala	-	_	_	_	_		-	_			2050	
						agg Arg											2098	
247			ggt			ttc Phe		gag					ctg				2146	
251 252		gtg				aac Asn 665	acc					gag					2194	
255	agt					gtg Val					gtg					ctc	2242	

RAW SEQUENCE LISTING

DATE: 08/14/2003 TIME: 15:07:38

PATENT APPLICATION: US/09/466,778A TIME: 15:0

Input Set : A:\PF487 subst. SL Aug2003.txt
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257					680					685					690		
	o±+	aaa	200	220		gtc	at a	020	210		200	a 2 a	at a	++-		000	2200
						Val											2290
261	пси	пта	1 111	695	Gry	Val	пец	што	700	пец	SET	GIII	vai	705	пец	PIO	
	CCC	cas	aaa		ata	ccc	aat	aaa		aaa	tta	cta	Car		ata	a a a	2338
						Pro											4330
265	110	1119	710	дор	V CL.L.	1.10	OTY	715	GIII	GLY	пец	цси	720	GIII	neu	дэр	
	tta	ata		acc	ttc	agc	ctc		caa	gaa	tta	cta		Cac	cat	aaa	2386
						Ser											2500
269	Lea	725	110	III	1 110	DCI	730	1 110	211.9	OLU	пси	735	OIII	птэ	птэ	GIY	
	tta		ccc	cag	at.t.	gag		acc	act	acc	tac		atc	ttt	ata	aaa	2434
				_		Glu		_		_							2131
	740					745					750			2 110	,	755	
		aac	cac	tcc	cta	gag	acc	caq	aac	aac	aσc	agt.	cac	ct.a	gac		2482
						Glu		-			-	_		_	_	_	2102
277			3		760				2	765					770		
	qac	aca	ata	caa	cac	cat	ata	atc	cta		σaσ	acc	ctc	tcc		gaa	2530
						His											
281	-			775					780	*				785			
283	acc	ctg	cgg	aag	ggt	gga	cac	cgc	aac	tcc	ctc	ctq	qqc	cct	qcc	cac	2578
			_	_		Gly		-				-			-		
285			790					795					800				
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288	${\tt Trp}$	Ile	Val	Phe	Tyr	Asn	His	Ser	Gly	Gln	Pro	Glu	Val	Asn	His	Val	
289		805					810					815					
291	cca	ctg	gaa	ggc	CCC	atg	ctg	gag	gcc	cct	ggc	cgc	tcg	ctg	att	ggt	2674
292	Pro	Leu	Glu	Gly	Pro	Met	Leu	Glu	Ala	Pro	Gly	Arg	Ser	Leu	Ile	Gly	
	820					825					830					835	
						acg											2722
	Leu	Ser	Gly	Val		Thr	Val	Gly	Ser	Ser	Arg	Cys	Leu	His	Ser	His	
297					840					845					850		
						gag											2770
	Ala	Glu	Ala		Arg	Glu	Lys	Cys		Asn	Cys	Thr	Arg	_	Phe	Arg	
301				855					860					865			
						cag											2818
	Cys	Thr		GTA	Pne	Gln	ьeu		Asp	Thr	Pro	Arg		ser	Cys	val	
305	+		870	~~~	++-	+	++~	875	~~~	~~~	.		880				2066
						tcc											2866
309	тАт	885	ser	СТУ	Pile	ser	890	ser	Arg	СТУ	Cys	895	TAT	THE	Cys	Ата	
	aarr		a+c	cad	ata	ccg		taa	+aa	aat	aat		+++	aaa	200	ata	2914
						Pro											271 4
313		בענה	110	0111	v u I	905	472P	Cys	Cys	110	910	TILE	r.me	ату	T 11T	915	
		σασ	cca	tac	CCA	ggg	aa+	cta	aaa	aaa		tac	tca	aaa	cat		2962
						Gly											2702
317		J_4		J10	920	J-7	~~ <u>Y</u>	_cu	~-y	925	, ur	$\cup_I \cup$	JC1	→ ⊥ γ	930	- - Y	
	caα	tac	саσ	gac	_	ttc	cta	aac	age		gag	t.ac	cac	tac		gag	3010
						Phe											2020
321		-1-		935	9			1	940	<u>,</u>		J, J		945			
									_								

gaagcatgca cagggaggag accantttta ttgcttgtct gggtggatgg ggcaggaggg 6723 nctgagggcc tgtcccagac aatanhagtn ccctcgag

6761

Location 6749

RAW SEQUENCE LISTING ERROR SUMMARY

PATENT APPLICATION: US/09/466,778A

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Input Set: A:\PF487 subst. SL Aug2003.txt
Output Set: N:\CRF4\08142003\1466778A.raw

Please Note:

Seq#:36; N Pos. 21

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 6342,6496,6529,6535,6537,6688,6724,6748,6749,6750,6753 Seq#:1; Xaa Pos. 2058,2109,2120,2122,2123 Seq#:2; Xaa Pos. 2058,2109,2120,2122,2123 Seq#:4; N Pos. 1103,1257,1290,1296,1298,1449,1485,1509,1510,1511,1514 Seq#:4; Xaa Pos. 358,409,420,422,423 Seq#:5; Xaa Pos. 358,409,420,422,423 Seq#:7; N Pos. 36,51,248,508,521,564,933,945,951,958 Seq#:7; Xaa Pos. 44,131,135,149,265,272,276,278,281 Seq#:8; Xaa Pos. 44,131,135,149,265,272,276,278,281 Seq#:10; N Pos. 478,479,668,849,1138,1149,1157,1169,1172,1251 Seq#:10; Xaa Pos. 94,157,303,314,320,324,325,351 Seq#:11; Xaa Pos. 94,157,303,314,320,324,325,351 Seg#:18; N Pos. 40 Seq#:20; N Pos. 21 Seq#:26; N Pos. 40 Seq#:28; N Pos. 21 Seq#:34; N Pos. 40